

WHAT IS CLAIMED IS:

1. A substantially pure cocoa extract comprising cocoa polyphenol(s).
2. The extract of claim 1 prepared from a process comprising:
reducing cocoa beans to powder,
defatting the powder, and
extracting and purifying the cocoa polyphenol(s) from the powder.
3. The extract of claim 2 wherein the process of reducing cocoa beans to powder comprises:
freeze drying beans and pulp,
depulping the freeze dried mass,
dehulling the freeze dried cocoa beans, and
grinding the dehulled beans.
4. The extract of any one of claims 2 or 3 wherein the process further comprises purifying the extract by gel permeation chromatography and/or by preparative high performance liquid chromatography (HPLC).
5. The extract of claim 4 containing polyphenol(s) of at least one cocoa procyanidin selected from the group consisting of: (-) epicatechin, procyanidin B-2, procyanidin oligomers 4 through 12, procyanidin B-5, procyanidin A-2 and procyanidin C-1.
6. An antineoplastic composition comprising a substantially pure cocoa extract or synthetic cocoa polyphenol(s) and a suitable carrier.
7. The antineoplastic composition of claim 6 which is comprised of a substantially pure cocoa extract containing cocoa procyanidin(s).
8. The antineoplastic composition of claim 7 wherein the cocoa procyanidin(s) are prepared from a process comprising:
reducing cocoa beans to powder,
defatting the powder, and,

extracting the cocoa procyanidin(s) from the powder.

9. The antineoplastic composition of claim 8 wherein the process of reducing cocoa beans to powder
5 comprises:

freeze drying beans and pulp,
depulping the freeze dried mass,
dehulling the freeze dried cocoa beans, and
grinding the dehulled beans.

10. The antineoplastic compositions of any one
10 of claims 8 or 9 wherein the process further comprises
purifying the extract by gel permeation chromatography
and/or by preparative high performance liquid
chromatography (HPLC).

11. The antineoplastic composition of claim 10
15 containing polyphenol(s) of at least one cocoa
procyanidin selected from the group consisting of: (-)
epicatechin, procyanidin B-2, procyanidin oligomers 4
through 12, procyanidin B-5, procyanidin A-2 and
20 procyanidin C-1.

12. A method for treating a patient in need of
treatment with an antineoplastic agent comprising
administering to the patient an antineoplastic
composition comprising an effective quantity of a
25 substantially pure cocoa extract or synthetic cocoa
polyphenol(s), and a suitable carrier.

13. The method of claim 12 wherein the
antineoplastic agent is comprised of a substantially pure
cocoa extract containing cocoa procyanidin(s).

14. The method of claim 13 wherein the cocoa
30 procyanidin(s) are prepared from a process comprising:
reducing cocoa beans to powder,
defatting the powder, and,
extracting the cocoa procyanidin(s) from the
35 powder.